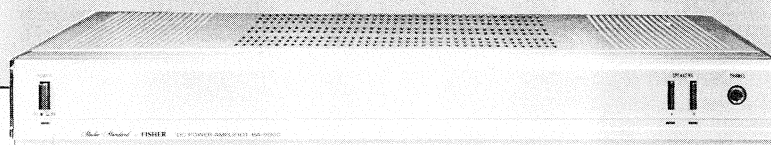


SERVICE MANUAL

FISHER

BA9000

POWER AMPLIFIER



THE FIRST NAME IN HIGH FIDELITY

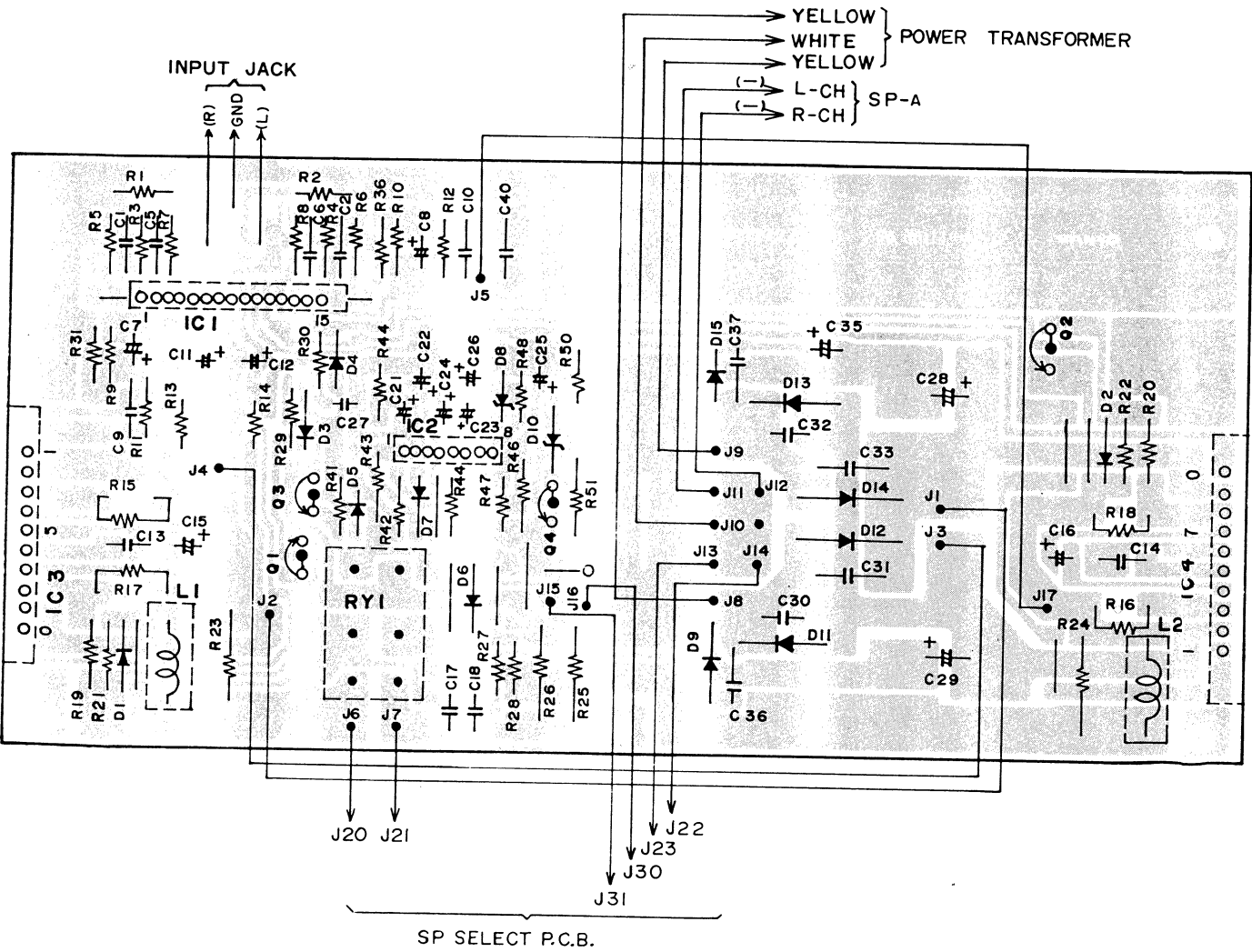
SPECIFICATIONS

Sine wave output power (1kHz, T.H.D 1%)	63W+63W
T. H. D. (1kHz)	0.01 %
Damping factor (1kHz)	50
Frequency response (1W, ±0.3dB)	10 Hz— 20 kHz
Input	1V/ 47 k ohm
Headphone output	40 mW/ 8 ohm

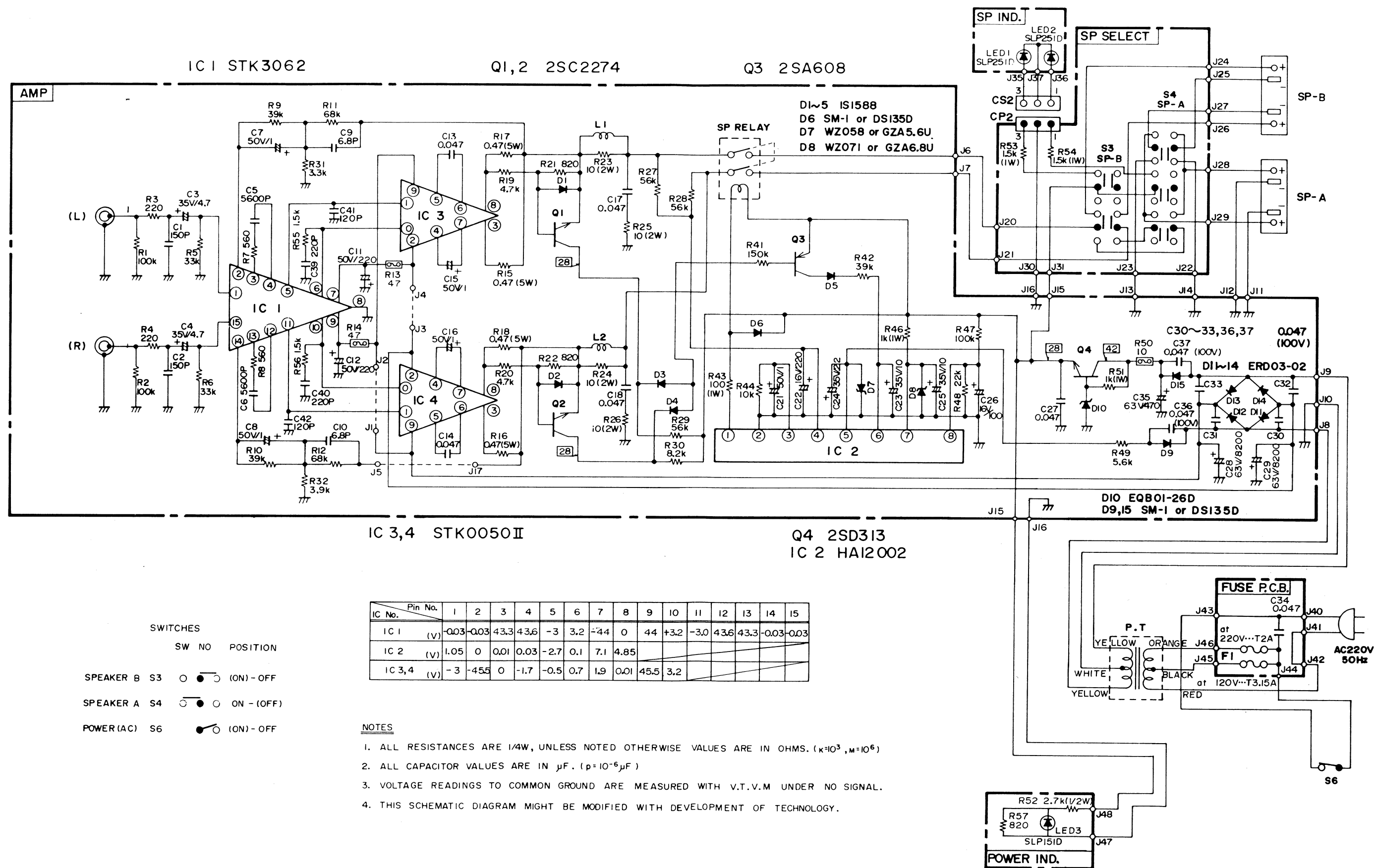
Channel separation (1 kHz)	65 dB
S/N ratio (50 mW)	60 dB
Power supply	AC220V, 50 Hz

WIRING DIAGRAM

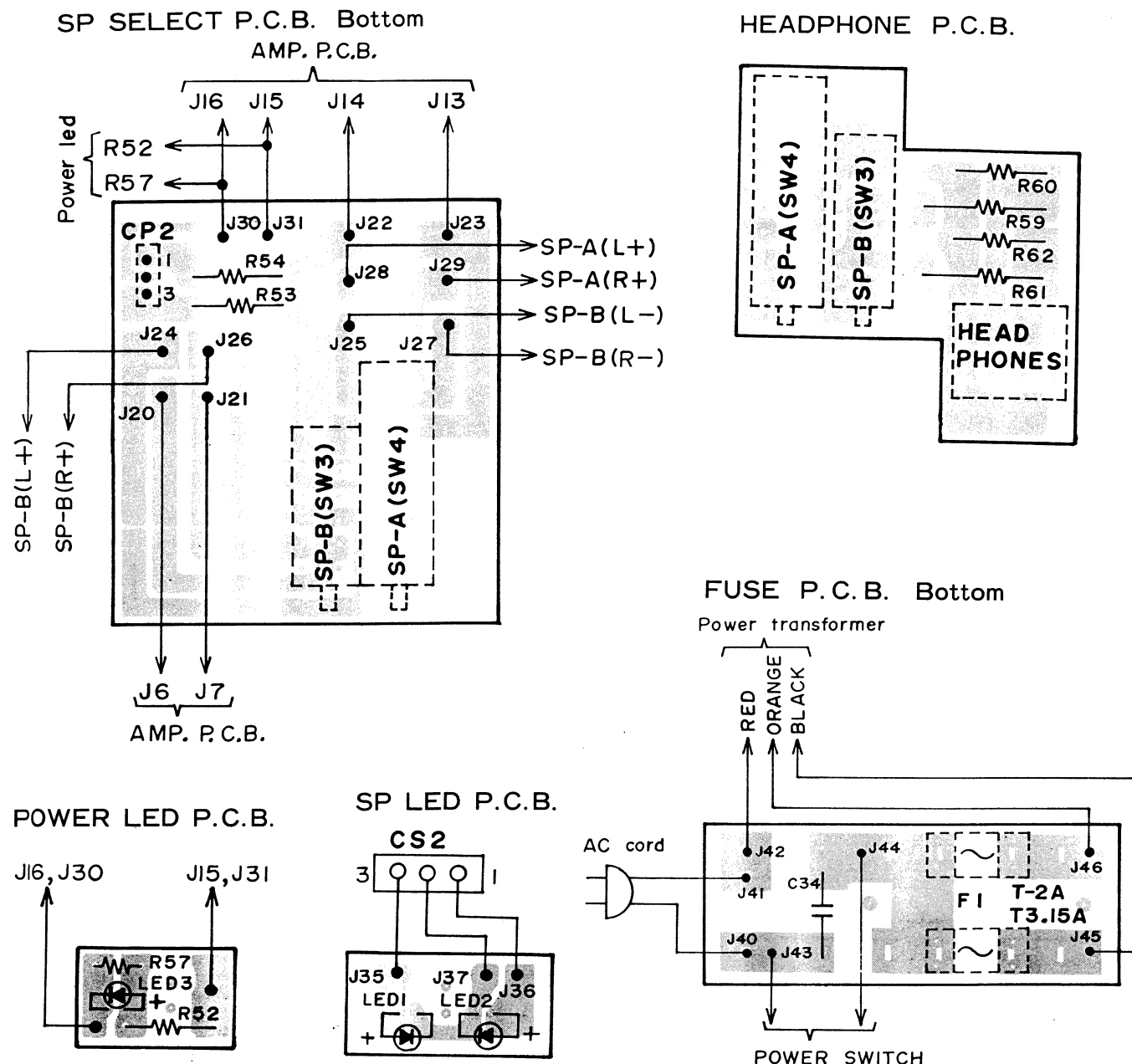
AMP P.C.B. Bottom



SCHEMATIC DIAGRAM



WIRING DIAGRAM



PARTS LIST

Key No.	Ref. No.	Part No.	Description	Qty
PACKAGE PARTS				
		R-4075179	Individual carton	1
		R-4771703-S	Label	2
		R-4770191	Label, caution	1
		R-357503	Polyethylene bag, 100x240, AC cord	1
		R-4774495	Polyethylene bag, set	1
		R-4172783A	Instruction book	1
		R-4172784A	Polyethylene bag, 240x320 instruction book	1
		R-4075027	Styro-foam cushion, right	1
		R-4075027	Styro-foam cushion, left	1
		R-4075217	Protector	1
		R-4075217	Protector, individual carton	2
CABINET APPEARANCE PARTS (SILVER)				
1		R-277721	Panel, base	1

Key No.	Ref. No.	Part No.	Description	Qty
2		R-277722	Panel	1
3		R-3973921	Screw, Pan Hd., 2x6	6
4		R-3973932	Fix board, Panel right	1
5		R-3973932	Fix board, Panel left	1
6		R-1272491-L	Screw Pan Hd., with washer 3x6	4
7		R-1272491-L	Top cover	1
8		R-3973918	Screw Bind Hd., 4x6	4
9		R-3973919	Fix board, power switch	1
10		R-3973919	Fix board, speaker switch	1
11		R-3973920	Screw, Pan Hd., 2x8	4
12		R-3973920	Knob, power	1
13		R-3973929	Knob, speaker	2
CABINET APPEARANCE PARTS (BLACK)				
1		R-277721-L	Panel, base	1
2		R-277722-L	Panel	1

PARTS LIST

Key No.	Ref. No.	Part No.	Description	Qty
3		R-3973921-L	Screw Pan Hd., 2x6	6
4		R-3973932-L	Fix board, panel right	1
5		R-1272491-M	Fix board, panel left	1
6		R-3973918-L	Screw pan Hd., with washer 3x6	4
7		R-3973919-L	Top cover	1
8		R-3973920-L	Screw Bind Hd., 4x6	4
9		R-3973929-L	Fix board, power switch	1
10		R-3973920-L	Fix board, speaker switch	1
11		R-3973920-L	Screw Pan Hd., 2x8	4
12		R-3973920-L	Knob, speaker	2
13		R-3973920-L	Knob, power	1
CHASSIS MECHANICAL PARTS				
14		R-1272493B	Bottom case	1
15		R-1272501	Bracket, power switch	1
16		R-1272756	Screw Pan Hd., 3x6	1
17		R-1272753	Lever, power switch	1
18		R-4171489	Bracket, speaker & head phone	1
19		R-1272746	Screw Pan Hd., 3x6	1
20		R-377065	Cushion, speaker switch	2
21		R-1272747	Bracket, panel	2
22		R-1272747	Screw Pan Hd., 3x8, B-tight	4
23		R-1272747	Holder, wire	2
24		R-1272495	Bracket, power trans	1
25		R-277684-L	Screw Pan Hd., 3x8 B-tight	3
26		R-377095	Heat sink	2
27		R-1272754	Screw Pan Hd., 4x10 S-tight	6
28		R-377070	Screw Pan Hd., 3x14 B-tight	4
29		R-1272496	Bracket-Heat sink	1
30		R-S872150	Fixture, fuse PCB	2
31		R-437384	Screw Pan Hd., 3.5x6 P-tight	2
32		R-437384	Chassis, rear	1
33		R-437384	Screw Pan Hd., 3x6	1
34		R-437384	Screw Bind Hd., 3x6	4
35		R-437384	Bushing, AC cord	1
36		R-437384	Bottom cover	1
37		R-437384	Screw Pan Hd., 3x6 B-tight	3
38		R-437384	Foot base	4
39		R-437384	Tap, Screw Flat Hd., 3x6	4
40		R-437384	Cushion, felt 40x12x4	1
41		R-437384	Screw Pan Hd., 3x6 B-tight	7
42		R-437384	Panel mtg.	1
43		R-437384	Screw Oval Hd., 3x6	2
44		R-437384	Push switch mtg.	6
45		R-437384	Screw Pan Hd., with Washer 3x6 B-tight	2
46		R-437384	AMP PCB mtg.	2
47		R-437384	Screw Pan Hd., 3x6 P-tight	2
48		R-437384	SP select PCB mtg.	2
CHASSIS ELECTRICAL PARTS				
26		R-S37089-1	AC cord L=2200	1
27		R-S47655	Push switch, Power	1
28		R-W77972	Screw, Oval Hd., 3x6	2
29		R-S17410-1	Power transformer	1
30		R-S17360	Screw Pan Hd., with flat Washer 4x10	4
31		R-S27298-3	Nut with Washer 4	4
32		R-S17243	Terminal plate, Input	1
33		R-S17243	Screw Pan Hd., 3x8 P-tight	2
34		R-S17185	Terminal plate, speaker	1
35		R-S17286	Housing, 3P	1
36		R-S17286	Terminal, CS2	3
37		R-S17286	Wire band	3
38		R-S17286	Screw Pan Hd., 3x6 B-tight	3
39		R-S17286	Fuse, 2A SEMKO	1
40		R-S17286	Fuse, 3.15A SEMKO	1
41		R-S17286	Integrated circuit, STK0050 II	2
42		R-S17286	Screw Pan Hd., with Washer, 3x14	4
AMP PCB ASSEMBLY				
30		R-A75369	Circuit board assembly, AMP	1
31		R-W6754	Choke coil	2

Key No.	Ref. No.	Part No.	Description	Qty
31		R-S47585	Relay	1
32		R-2671941	Heat sink, transistor	1
33		R-2671941	Screw Pan Hd., 3x6 B-tight	1
SEMICONDUCTORS				
IC1		IC1	Integrated circuit, STK3062	1
IC2		IC2	Integrated circuit, HA12002	1
Q1,2		Q1,2	Transistor, 2SC2274	2
Q3		Q3	Transistor, 2SA608	1
Q4		Q4	Transistor, 2SD313	1
D1,2,3,4,5		D1,2,3,4,5	Diode, 1S1588 or ITT73N	5
D6,9,15		D6,9,15	Diode, DS-135 D or SM-1-02C	3
D7		D7	Diode, WZ-058 or GZA-5.6U	1
D8		D8	Diode, WZ-071 or GZA-6.8U	1
D10		D10	Diode, EQB-01-26D	1
D11,12,13,14		D11,12,13,14	Diode, ERD-03-02	4
RESISTORS				
(Resistors are of carbon type, $\pm 5\%$ allowance and $\frac{1}{4}W$ unless otherwise noted.)				
R3,4		R3,4	220 ohm	2
R7,8		R7,8	560 ohm	2
R21,22		R21,22	820 ohm	2
R56		R56	1.5 k ohm	1
R31,32		R31,32	3.3 k ohm	2
R19,20		R19,20	3.9 k ohm	2
R49		R49	5.6 k ohm	1
R30,29		R30,29	8.2 k ohm	2
R44		R44	10 k ohm	1
R48		R48	22 k ohm	1
R5,6		R5,6	33 k ohm	2
R9,10,42		R9,10,42	39 k ohm	3
R28,27		R28,27	56 k ohm	2
R11,12		R11,12	68 k ohm	2
R47,41		R47,41	150 k ohm	2
R55		R55	1.5 k ohm	1
R1,2		R1,2	100 k ohm	2
R25,26,23,24		R25,26,23,24	Metal oxide film, 10 ohm, $\pm 10\%$, 2W	4
R43		R43	Metal oxide film, 100 ohm, $\pm 10\%$, 1W	1
R46,51		R46,51	Metal oxide film, 1 k ohm, $\pm 10\%$, 1W	2
R13,14		R13,14	Fuse, 47 ohm, $\pm 5\%$, $\frac{1}{4}W$	2
R50		R50	Fuse, 10 ohm, $\pm 10\%$, $\frac{1}{4}W$	1
R15,16,17,18		R15,16,17,18	Cement, 0.47 ohm, $\pm 5\%$, 5W	4
CAPACITOR				
C9,10		C9,10	Ceramic, 6.8 pF, $\pm 5\%$, 50V	2
C1,2		C1,2	Ceramic, 150 pF, $\pm 5\%$, 50V	2
C40		C40	Ceramic, 220 pF, $\pm 10\%$, 50V	1
C5,6		C5,6	Ceramic, 560 pF, $\pm 5\%$, 50V	2
C13,14,17,18		C13,14,17,18	Mylar, 0.047 μF , $\pm 10\%$, 50V	4
C30,31,32,33,36,37		C30,31,32,33,36,37	Mylar, 0.047 μF , $\pm 10\%$, 100V	6
C41,42		C41,42	Ceramic, 120 pF, $\pm 10\%$, 50V	2
C27		C27	Ceramic, 0.047 μF , $\pm 10\%$, 50V	1
C39		C39	Ceramic, 220 pF, $\pm 10\%$, 50V	1
C8,7,15,16,21		C8,7,15,16,21	Electrolytic, 1 μF 50V	5
C11,12		C11,12	Electrolytic, 220 μF 50V	2
C24		C24	Electrolytic, 22 μF 35V	1
C23,25		C23,25	Electrolytic, 10 μF 35V	2
C29,28		C29,28	Electrolytic, 8200 μF 63V	2
C35		C35	Electrolytic, 470 μF 63V	1
C26		C26	Electrolytic, 100 μF 16V	1
C22		C22	Electrolytic, 220 μF 16V	1
C3,4		C3,4	Electrolytic, 4.7 μF 50V	2
SPEAKER SELECT PCB ASSEMBLY				
32		R-A75370	Circuit board assembly, SP select A	1
33		R-S47627	Push switch	1
34		R-S27207-3	Plug, 3P	1
35		R-S27207-3	Metal oxide film, 1.5k ohm, $\pm 10\%$, 1W	2
SPEAKER SELECT PCB ASSEMBLY				
34		R-A75371	Circuit board assembly, SP select B	1
35		R-S27438	Headphone	1
36		R59,61	Metal oxide film, 270 ohm, $\pm 5\%$, 2W	2
37		R60,62	Metal oxide film, 100 ohm, $\pm 5\%$, 1W	2

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

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PARTS LIST

Key No.	Ref.No.	Part No.	Description	Qty
FUSE PCB ASSEMBLY				
36		R-A75372	Circuit board assembly, Fuse	1
		R-S17024	Fuse clip	4
		R-237188	Eyelet	2
		R-237196	Terminal	4
	C34		Metallized polyester, 0.047 μ F, 250V	1
POWER LED PCB ASSEMBLY				
37		R-A75373	Circuit board assembly, Power LED	1

Key No.	Ref.No.	Part No.	Description	Qty
	LED3		LED, SLP-151D	1
	R52		Solid 2.7 k ohm, $\pm 10\%$, $\frac{1}{2}$ W	1
	R57		Carbon, 820 ohm, $\pm 5\%$, $\frac{1}{4}$ W	1
SPEAKER LED PCB ASSEMBLY				
38		R-A75374	Circuit board assembly, SP LED	1
	LED1,2		LED, SLP-251D	2

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2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

EXPLODED VIEW

